Stone Mountain Technologies

Thermal Compressors for Gas Heat Pumps

Next Generation Heating Innovation



Michael Garrabrant, President & CEO

NREL Industry Growth Forum, November 2015



Gas heating still using stone age innovation



THIS NEW TECHNOLOGY IS AMAZING!



Current technology maxed at <100%

Net Gas Efficiency

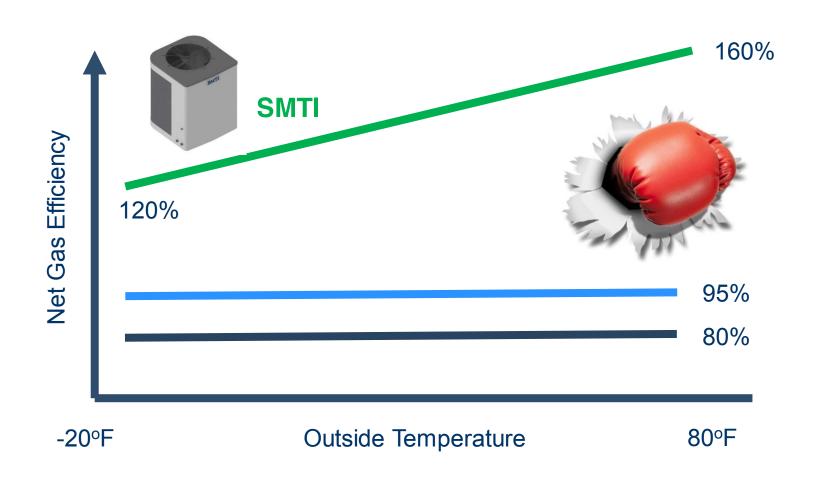


Current Gas Heating Product Options

95% Max-Tech

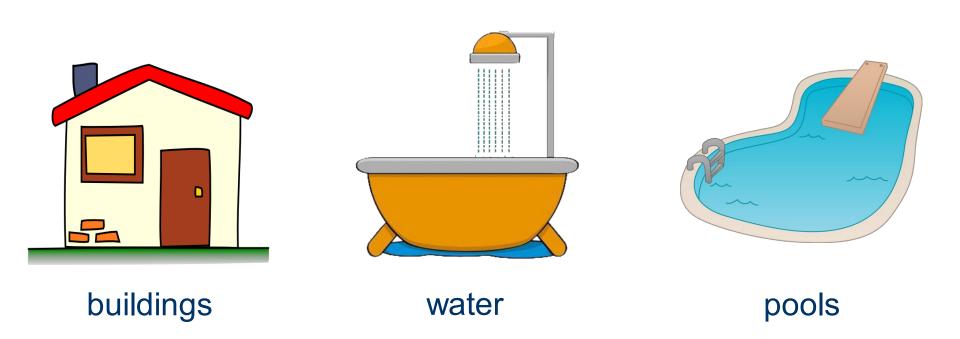
80% Minimum Std

Gas Absorption Heat Pumps Break 100% Barrier



...and work well at low outside temperatures!

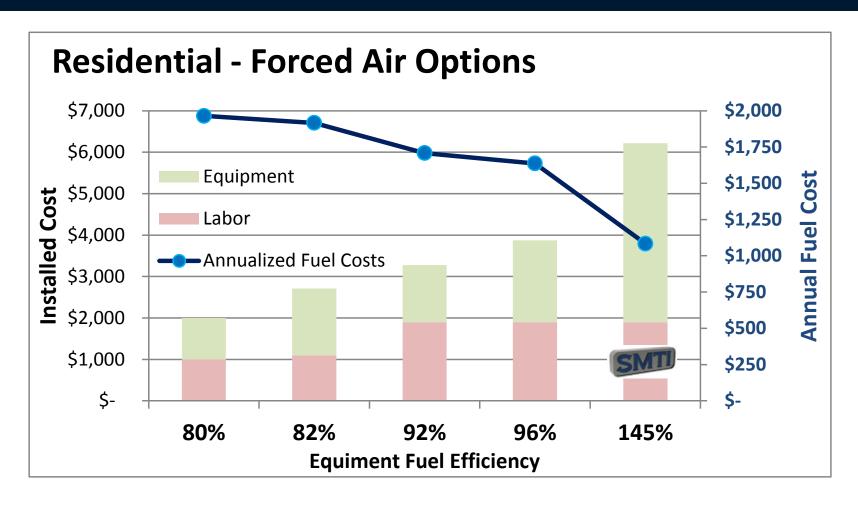
Many Ways to Use Gas Absorption Heating



Residential & Commercial



Strong Economic Story



30 – 50% Lower Gas Bills I 2 – 5 Year End-User Payback

Enabling Technology – SMTI Thermal Compressor

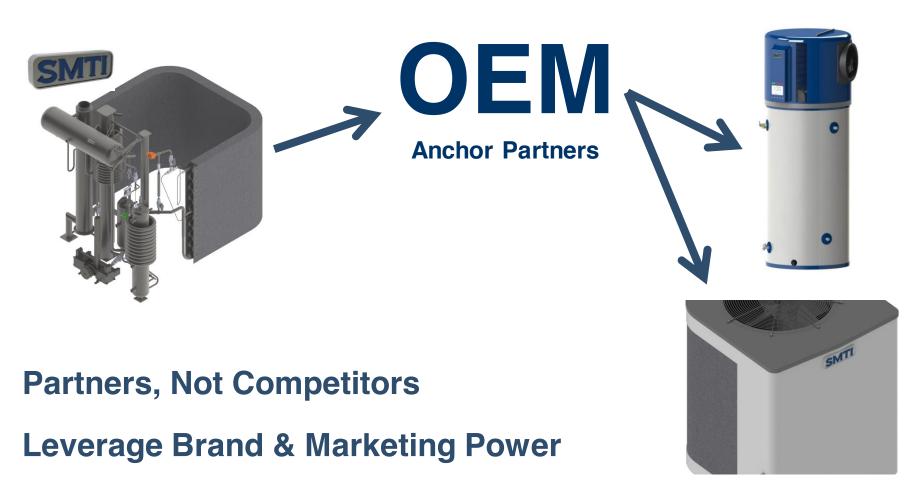


- √ Scalable low-cost design
- √ Shared materials & processes
- √ Patent and Trade
 Secret Portfolio

One product for ALL applications



Business Model – Build and Sell to OEMs



No Need to Create New Distribution & Service Networks

3rd Party Validation



Field Testing





Full-Scale Prototypes







Scalable Markets



Gas Space & Water Heating Market

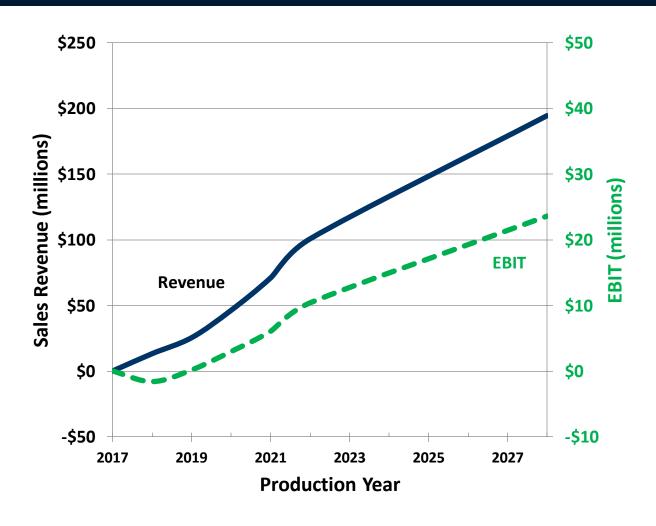
Market Segments and Potential – U.S.



\$1.1 Billion ISO Value to SMTI

Theoretical Maximum Revenue for thermal compressor sales, based on ISOs

Thermal Compressor Revenues



Competition

Status-Quo	Electric HP	Robur GAHP
Lower 1 st Cost	Cooling Focus	2X Cost
Lower Efficiency	Poor Cold Weather	Only Two Sizes
Indoor Flue	Performance	Lower Efficiency (cold – hot)
Venting Ingrained	Lower Efficiency	Design Not Scalable
ingrained	Requires Back-Up	Europe Focus

Experienced Leadership Team



Michael Garrabrant Founder & CEO

Industry Insider (AO Smith, AWHC)
Start-Up Experience (Cooltec, NRG Solutions)
26 years executive & manufacturing experience
"Born to change the heating industry"



Scott Reed Marketing & Strategy

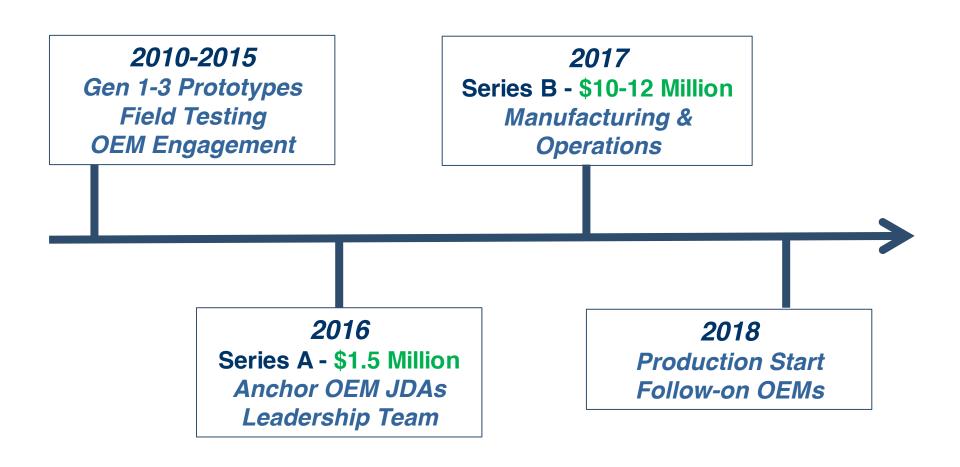
Energy Industry Executive (Marketing, Sales & Strategy)
Efficiency as a Business (SunEdison, SES)
Start-Up Experience (Cogenra Solar, Chromasun), MBA
"Loses sleep dreaming about absorption heat pumps"



Chris Keinath Dir Engineering

PhD Engineering, Georgia Tech
Passionate about absorption heat pumps
"Technical Guru"

Progress & Plan



Series A Leadership Team: CFO, VP Operations

Development Partners

Over \$5 million in support so far......















(And several OEMs)

Stone Mountain Technologies

Thermal Compressors for Gas Heat Pumps

Help us transform the gas heating market

Investment Commercialization Partnership

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